

**HEAT TACK APPLICATION FOR USE WITH THE MANUFACTURE OF  
GENERATOR ROTOR COILS AND OTHER COMPONENTS**

Abstract of the Disclosure

5           A heat tack application involves arranging an adhesive between a strand of  
conductive material and a strand of insulation material; applying a temperature of about  
100-300°C and a pressure of about 5-100 psi for about 5-120 seconds to tack the  
adhesive. A stack can thereby be formed, and a plurality of stacks assembled to form a  
nascent rotor coil that is subsequently arranged in a rotor slot. An applied temperature of  
10   about 100-500°C and a pressure of about 100-1,500 psi can fully cure the adhesive after  
the coil is arranged within the rotor slot. Depending on the context of use, the conductive  
material may more generally be a first component, and the insulation material may more  
generally be a second component.